

REMARKS

The above-captioned patent application has been amended and reexamination and reconsideration are requested.

The Examiner objected to claim 34 as containing a typographical error.

Applicants have amended claim 34 to correct the typographical error. No new matter was added.

The Examiner rejected claims 1-37 under 37 U.S.C. §103(a) as unpatentable over U.S. Patent 5,864,827 (Wilson) in view of U.S. Patent 5,987,432 (Zusman) and U.S. Patent 6,016,107 (Kampe).

Applicants have cancelled claims 3 and 18.

Applicants submit that Wilson, Zusman and Kampe fail to disclose or suggest the invention as claimed in claims 1, 2, 4-17, and 19-37.

For example, claim 1, as amended, calls for "...receiving a plurality of incoming messages having market event data from a plurality of data feed lines, the data feed lines providing quote information, market participant information, and timing information..." Claim 16, as amended, calls for "...receive from a plurality of feed lines a plurality of incoming messages having data on market events, the feed lines providing quote information, market participant information, and timing information..." Claim 28, as amended, calls for "...the data feed lines providing quote information, market participant information, and timing information..."

Amended claims 1, 16 and 28 distinguish from the cited references since the references fail to teach the data feed lines providing quote information, market participant information, and timing information. The Examiner states that "Wilson discloses market event messages (which includes market activity data and time data)..." On the contrary, Wilson discloses "(t)he gateway 1 is also coupled to one or more financial exchanges 16, 18, 20, 22..." (see col. 4, lines 41-42). "The information stored in the memory 52 may include, for example, transaction information, information relating to an order placed by a customer or broker, e.g., stock symbol, quantity, price, exchange, etc., acknowledge information, and confirmation information" (see

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Serial No. : 09/346,719
Filed : July 2, 1999
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distinguishes from the cited references since the references fail to teach a data structure including a time stamp field, a message time field, a message data field, a market session field, a line field, a feed field, a feed sequence number field, a message type field and an original identification field. Accordingly, claim 43 is patentably distinct over Wilson, Zusman and Kampe, whether taken separately or in combination.

Attached is a marked-up version of the changes being made by the current amendment.

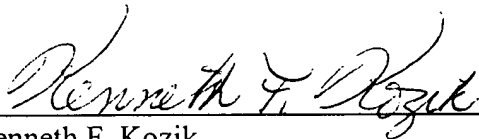
A check in the amount of \$240 is enclosed for the excess claims fee.

Applicant asks that all claims be allowed. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date:

August 5, 2002



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Version with markings to show changes made

In the claims:

Claims 3 and 18 have been cancelled.

Claims 1, 14, 16, 28 and 34 have been amended as follows:

1. (Amended) A method of receiving and formatting incoming messages [from one or more data feed lines], comprising:

receiving a plurality of incoming messages having market event data from a plurality of [a] data feed [line] lines, the data feed lines providing quote information, market participant information and, timing information;

translating a portion of the received messages into market event messages having a common format, the market event messages including market activity data and time data; and

publishing at least one of the translated messages on a network having a plurality of devices capable of processing the published message.

14.(Amended) The method of claim 1, further comprising:

monitoring [a] the plurality of feed lines for the incoming messages.

16. (Amended) A computer program product for receiving and formatting data incoming messages [from one or more data feed lines], the program residing on a computer readable medium and comprising instructions to cause a computer to:

receive from a plurality of [one or more] feed lines a plurality of incoming messages having data on market events, the feed lines, lines providing quote information, market participant information and, timing information;

translate the received messages into market event messages having a common format, the market event messages including market activity data and time data; and

publish at least one of the translated messages on a network having a plurality of devices capable of processing the published message.

28. (Amended) A system to receive and format incoming messages received from a plurality of data feed lines, comprising:

a network; and

a plurality of line handlers having a server coupled to both a data feed line and to the network, the servers being configured to:

receive a plurality of incoming messages for market events from the data feed lines coupled thereto, the feed lines, lines providing quote information, market participant information and, timing information;

translate the received incoming messages into market event messages having a common format; and

publish a portion of the translated messages on the network ; and

wherein the market event messages from each server have the same format.

34. (Amended) The system of claim 33, wherein the program includes an receiver object to receive incoming messages, a translating object to translate the incoming messages, and a publishing object to [publishes] publish translated messages.

New Claims 38-43 have been added as follows:

38. (New) A method of processing Nasdaq Quote Data Service (NQDS) messages comprising:

receiving a NQDS message in a receiver object from one of a plurality of monitored feed lines;

activating a timing object to attach timing data to the NQDS message; and

activating a translator object to translate the NQDS message into a common format.

39. (New) The method of claim 38 in which the timing data comprises;

an NQDS time extracted from the NQDS message; and

a stamp for a receipt time at the receiver object.

40. (New) The method of claim 39 in which the timing data further comprises a message delta obtained by comparing a time of the NQDS message with times of previously received NQDS message from the one of the plurality of monitored feed lines.

41. (New) The method of claim 38 in which the common format is a market event object format.

42. (New) The method of claim 41 in which the market event object format comprises:
a time stamp field;
a message time field;
a market session data field;
a line field;
a feed field;
a feed sequence number field;
a message type field; and
an original identification field.

43. (New) A data structure for providing a common format for a market event message comprising;
a time stamp field;
a message time field;
a market session data field;
a line field;
a feed field;
a feed sequence number field;
a message type field; and
an original identification field.